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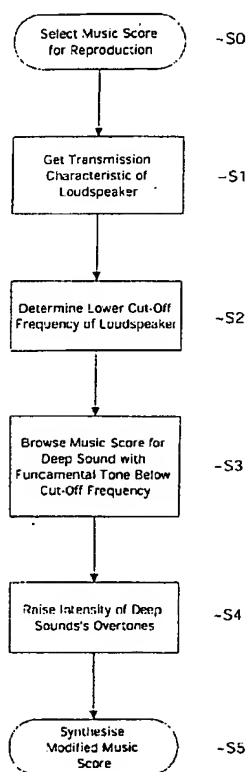
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[Continued on next page]

(54) Title: **LOUDSPEAKER SENSITIVE SOUND REPRODUCTION**



(57) Abstract: The present invention modifies a reproduction of a music file for adapting a reproduction of the audio data contained in the music file to the characteristic of a small size loudspeaker on a mobile terminal of a wireless communication system so that the audibility of the respective music or polyphonic sound contained in the music file is improved. Hereto, audio data which represent a sound with a spectral component below the transmission frequency range of the loudspeaker are identified in the music file, and the reproduction of sound from the identified audio data is modified such, that the modified reproduction yields a sound spectrum having an increased energy content within the transmission frequency range of the loudspeaker as compared to sound obtained by an unmodified reproduction.

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SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
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